Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		23	
LM End	0.00	Issue Type +	Ма	Location *		N/A	
Category	Catagoria Earthen Levee			GPS La	atituc	de/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
item	Manuals						0
DWR ID	DWR ID DWR_NA0010_01_s _ 2013_23						
		Comn	nent Cod	de			
			•				
		Inspecto	or Comm	nent			
The LMA maintains a copy of the O&M manuals on file at district office.							

No Photos

Issue No. LM Start 0.00 Rating ** Α 24 Location * Issue Type + N/A 0.00 Ma LM End Earthen Levee GPS Latitude/Longitude Category End Emergency Supplies & Item Equipment DWR_NA0010_01_s _ 2013_24 DWR ID Comment Code

No Photos

Inspector Comment

The LMA has adequate supplies and equipment for flood response.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		25	
LM End	0.00	Issue Type +	Ма	Location *		N/A	
Catagory	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Flood Pre		0		0		
пеш					0		0
DWR ID	DWR_NA0	010_01_s _ 201	3_25				
		Comn	nent Cod	le			
Inspector Comment							
LMA prepa	aredness a	nd training is	adequat	e for flood r	esp	onse.	

No Photos

LM Start	0.00	Rating **	U	Issue No.		89
LM End	0.43	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS La	titud	le/Longitude
				Start		End
Itom	Vegetatio	n		37.3486	43 °	37.343458°
пеш	Item				75°	-120.962490°
DWR ID DWR_NA0010_01_f _ 2016_89						
		Cama	ant Car	ام		

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Dense veg and tumble weeds along waterward and landward shoulders and slopes.

Photo 1 of 1: FA 2016 NA0010 118 89 20161024 00232.jpg



Looking downstream at typical view of landward and waterward slopes.

LM Start	0.09	Rating **	М	Issue No.	90		
LM End	0.09	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Encroach	ments		37.34780)8°	37.347808°	
пеш				-120.96001	18°	-120.960018°	
DWR ID	DWR ID DWR_NA0010_01_f _ 2016_90						
	Comment Code						

TR: Tree or limb

Inspector Comment

Falling tree limb on waterward shoulder.

Photo 1 of 1: FA_2016_NA0010_118_90_20161024_00230.jpg



Looking downstream at tree branch on waterward slope.

+ Issue Type * Location Ma : Maintenance Deficiancy N/A: Not Applicable N : Not Inspected/Rated LS: Land Side A : Acceptable M : Minimally Acceptable WS: Water Side C : Corrected Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.14	Rating **	U	Issue No.		7
LM End	0.14	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	n		37.3471	52°	37.347152°
пеш				-120.9605	60°	-120.960560°
DWR ID DWR_NA0010_01_s _ 2012_7						
		Comn	nent Cod	de		
V7 : Trees	/ Woody \	/egetation				
			_			
		Inspecto	or Comn	nent		
Dead tree on waterward slope and toe.						



Looking southwest at dead tree on landward slope and toe.

LM Start	0.19	Rating **	М	Issue No.		3
LM End	0.19	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	Trim / Thin Trees			76°	37.346576°
item			-120.961061 °		-120.961061 °	
DWR ID	DWR_NA0	010_01_s _ 201	6_3			·
		Comn	nent Cod	de		
T2: Thin t	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.
Inspector Comment						
Dead tree	(limbs & b	ranches) bloc	king land	dward right	of w	ay/ berm.



Looking east at brush and tree limbs blocking landward toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.23	Rating **	М	Issue No.		1
LM End	0.23	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory						End
Item	Animal Co	ontrol		37.3460	96°	37.346096°
пеш			-120.9614	55 °	-120.961455°	
DWR ID	DWR_NA0010_01_s _ 2012_1					

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Typical view of several rodent holes on landward slope. Could not see rodent holes due to dense vegetation.

Photo 1 of 1: FA_2016_NA0010_118_1_20161007_00001.jpg



Looking at typical rodent holes on landward slope.

LM Start	3.16	Rating **	М	Issue No.		10
LM End	3.16	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory						End
Item	Animal Co	ontrol		37.3210	53°	37.321053°
item					85 °	-120.928785°
DWR ID	DWR_NA0	010_01_s _ 201	2_10			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several rodent holes noted within this section. Rodent hole noted on waterward shoulder next to fence pole.

LM Start	3.16	Rating **	М	Issue No.	10 (cont)
LM End	3.16	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA 2016 NA0010 118 10 20161007 00007.jpg



Looking at typical view of rodent holes on landward slope.

Photo 2 of 2: FA_2016_NA0010_118_10_20161007_00008.jpg



Looking at rodent hole next to fence pole on landward shoulder.

Location + Issue Type LS: Land Side N/A: Not Applicable : Acceptable : Minimally Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiancy WS: Water Side C : Corrected Ob : Design & System Obsolescence U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.		1179	
LM End	3.47	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item Erosion / Bank Caving				37.3170)57°	37.317057°	
пеш	item			-120.926443 °		-120.926443 °	
DWR ID DWR_NA0010_01_s _ 2015_1179							
Comment Code							
E1 : Note a	and monito	or erosion site					
		Inspecto	or Comm	nent			
Several er	osions gre	ater than thre	e inches	on landwa	rd slo	ope.	

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Photo 1 of 3: FA_2016_NA0010_118_1179_20161007_00022.jpg

Looking south at erosion on landward slope and toe.

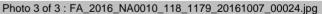
LM Start 3.47 Rating ** U Issue No. 1179 (cont) LM End 3.47 Issue Type + Ma Location * LS

Photo 2 of 3: FA_2016_NA0010_118_1179_20161007_00023.jpg



Looking southwest at erosion on landward slope and toe.

LM Start	3.47	Rating **	U	Issue No.	1179 (cont)
LM End	3.47	Issue Type +	Ma	Location *	LS





Looking west at erosion on landward slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.50	Rating **	М	Issue No.		17
LM End	3.96	Issue Type +	Ма	Location *		CR
Category Earthen Levee			GPS Latitude/Longitude			
Calegory		Start	Start		End	
Crown Surface / Depressions /			37.316652°		37.311006 °	
item	Rutting			-120.926261 °		-120.926402 °
DWR ID	DWR_NA0	010_01_f _ 201	2_17			
		Comn	nent Cod	le		
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.						
		Inspecto	or Comm	ent		

No Photos

LM Start	3.70	Rating **	М	Issue No.		2	
LM End	3.72	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Animal Control		37.313892°		37.313598°			
iteiii				-120.9265	07°	-120.926607°	
DWR ID	DWR_NA0	010_01_s _ 201	2_2				

No Photos

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

			_				
LM Start	4.13	Rating **	С	Issue No.		100	
LM End	4.13	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS L	atitude/Longitude		
Category				Start		End	
Item	Encroach	ments		37.3090)49°	37.309049	
item				-120.9244	-120.9244		
DWR ID	DWR_NA0	010_01_f _ 201	4_100				
		Comn	nent Cod	de			
GA : Garba	age						
		Inspecto	or Comm	nent			
Old PVC p	ipes left o	n landward slo	ppe.				

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.18	Rating **	A/W	Issue No.		6	
LM End	4.18	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.3085	40°	37.308540°	
пеш				-120.9240	03°	-120.924003°	
DWR ID DWR_NA0010_01_s _ 2012_6							
		Comn	nent Cod	de			
A1 : Exter	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
Inspector Comment							
Several rodent holes noted in this section.							

No Photos

LM Start	4.69	Rating **	U	Issue No.		9		
LM End	4.69	Issue Type +	Ма	Location *	LS			
Catagory Earthen Levee			GPS La	titud	le/Longitude			
Category				Start		End		
Item	Animal Control			37.3023	98°	37.302398°		
item				-120.92092	20°	-120.920920°		
DWR ID DWR_NA0010_01_s _ 2013_9								
	Comment Code							

Comment Code

A2 : Repair the levee slope damaged by livestock and prevent large animal access.

Inspector Comment

Levee landward toe damaged by livestock.

Photo 1 of 1 : FA_2016_NA0010_118_9_20161007_00006.jpg



Looking at landward slope damaged by livestock.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	5.87	Rating **	U	Issue No.		93	
LM End	6.86	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.3035	84°	37.302118°	
пеш				-120.9046	14°	-120.887957°	
DWR ID DWR_NA0010_01_f _ 2015_93							
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.							
		Inspecto	or Comm	nent			

Ма

Issue No.

Location *

93 (cont)

WS

Rating **

Issue Type +

LM Start

LM End

5.87

6.86

Photo 1 of 2 : FA_2016_NA	0010_118_93	3_20161024_	_00233.jpg
			244
The second second	Maria Ma	-	
date.		SHIP THE REAL PROPERTY.	W. William
		-	
	4		4
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Looking at dense veg on waterward slope. (Fall 2016)

Photo 2 of 2: FA_2016_NA0010_118_93_20161007_00018.jpg



Looking at dense veg on waterward slope. (Spring 2016)

LM Start	5.87	Rating **	U	Issue No.		92	
LM End	6.86	Issue Type +	Ма	Location *		LS	
Cotogony	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.3035	555°	37.302118°	
пеш						-120.887957°	
DWR ID DWR_NA0010_01_f _ 2015_92							
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.							
Inspector Comment							



Looking south at dense veg on landward slope. (Fall 2016)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	5.87	Rating **	U	Issue No.		92 (cont)	
LM End	6.86	Issue Type +	Ма	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Category			Start		End		
ltem	ltem Vegetation			37.303555°		37.302118°	
item				-120.9045	41 °	-120.887957°	
DWR ID DWR_NA0010_01_f _ 2015_92							
Comment Code							
1/2 · Pamo	we the wile	d arowth other	than na	tive aracce	e fro	m the levee	

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



Looking south at dense veg on landward slope. (Spring 2016)

LM Start	8.99	Rating **	U	Issue No.		12
LM End	9.72	Issue Type +	Ма	Location *		LS
Category	Earthen L		GPS Latitude/Longitude			
Calegory	egory			Start		End
Item	Vegetation			37.2975	08°	37.293801°
item				-120.8511	03°	-120.839759°
DWR ID	DWR ID DWR_NA0010_01_f _ 2015_12					

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

LM Start	8.99	Rating **	U	Issue No.	12 (cont)
LMEnd	9.72	Issue Type +	Ma	Location *	1.9

Photo 1 of 2: FA_2016_NA0010_118_12_20161024_00235.jpg



Looking east at dense veg on landward slope. (Fall 2016)

Photo 2 of 2 : FA_2016_NA0010_118_12_20161007_00009.jpg



Looking southeast at dense veg on landward slope. (Spring 2016)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

	0.00	Rating **	U	Issue No.		0.4	
LM Start	9.03	Rating	U	issue ivo.		94	
LM End	9.72	Issue Type +	Ma	Location *	WS		
Cotogon Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Vegetation			37.2973	880°	37.293801 °	
пеш			-120.850388 °		-120.839759°		
DWR ID DWR_NA0010_01_f _ 2015_94							
		Comn	nent Cod	le			
V2 : Remo	ve the wild	growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	ent			

Ма

Issue No.

Location *

Rating **

Issue Type +

LM Start

LM End

9.03

9.72

make . L.	Later St.	de la fini	-	i Care	
	a selection	a seather			
	1	No.		3	
			Table.		
	STATE	SE STORY OF			

Photo 1 of 2: FA_2016_NA0010_118_94_20161024_00236.jpg

Looking south at dense veg on waterward slope. (Fall 2016)

94 (cont)

WS

Photo 2 of 2: FA_2016_NA0010_118_94_20161007_00019.jpg



Looking southwes at dense veg on waterward slope. (Spring 2016)

LM Start	9.16	Rating **	М	Issue No.		117		
LM End	9.78	Issue Type +	Ма	Location *		CR		
Category	Earthen Levee				atitud	le/Longitude		
Calegory		Start		End				
Item		rface / Depres	ssions /	37.2961	45°	37.293077°		
пеш	Rutting			-120.848588		-120.839170°		
DWR ID	010_01_s _ 201	2_117						
	Comment Code							

C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.

Inspector Comment

Control vegetation on levee crown.

Photo 1 of 1: FA_2016_NA0010_118_117_20161007_00021.jpg



Looking south at veg on levee crown.

*Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
C: Corrected
U: Unacceptable
A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	9.57	Rating **	М	Issue No.		14		
LM End	9.57	Issue Type +	Ма	Location *	CR			
Category Earthen Levee				GPS La	atitud	e/Longitude		
				Start		End		
Item		rface / Depres	ssions /	37.2955	17°	37.295517°		
item	Rutting		-120.841452°		-120.841452°			
DWR ID DWR_NA0010_01_s _ 2015_14								
		Comn	nent Coo	le				
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.				
		Inspecto	or Comm	ent				
Depressio	n greater tl	nan 3" deep b	y 18" wid	de by 18" Ic	ong c	on levee crown		

Ма

Issue No.

Location *

Rating **

Issue Type +

LM Start

LM End

9.57

9.57

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Photo 1 of 3: FA_2016_NA0010_118_14_20161007_00010.jpg

14 (cont)

CR

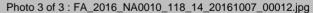
Photo 2 of 3: FA_2016_NA0010_118_14_20161007_00011.jpg

Looking at depression on levee crown. (Fall 2015)



Looking west at depression greater than three inches on levee crown.

LM Start	9.57	Rating **	М	Issue No.	14 (cont)
LM End	9.57	Issue Type +	Ma	Location *	CR





Looking west at depression on levee crown.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	21.32	Rating **	U	Issue No.		8	
LM End	22.46	Issue Type +	Ma	Location *		WS	
Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Vegetation			37.1801	09°	37.167498°	
item				-120.762154°		-120.750862 °	
DWR ID DWR_NA0010_01_f _ 2015_8							
		Comn	nent Cod	de			
V2 : Remo slopes.	ve the wild	growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			
Dense veg	etation on	waterward slo	ope.				



Looking downsteam at dense veg on waterward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	М	Issue No.		24	
LM End	2.30	Issue Type +	Ma	Location *	CR		
Category Earthen Levee			GPS La	titud	e/Longitude		
			Start		End		
Item	Crown Surface / Depressions /			37.2963	13°	37.291556°	
пеш	Rutting			-120.8805	76°	-120.851252°	
DWR ID	DWR_NA0	010_02A_s _ 20	016_24				
Comment Code							
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.							
Inspector Comment							

Control annual weeds and regrade levee crown.

Photo 1 of 1 : FA_2016_NA0010_119_24_20	161007_00006.jpg
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Looking northeast at veg on levee crown.

LM Start	0.00	Rating **	М	Issue No.		27	
LM End	1.33	Issue Type +	Ма	Location *		LS	
Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
ltom	Vegetation			37.2963	05°	37.286489°	
Item				-120.880567°		-120.865966 °	
DWR ID DWR_NA0010_02A_f _ 2015_27							
0							

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

LM Start	0.00	Rating **	М	Issue No.	27 (cont)
LM End	1.33	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2016_NA0010_119_27_20161024_00065.jpg



Looking at dense veg on landward slope. (Fall 2016)

Photo 2 of 2: FA_2016_NA0010_119_27_20161007_00007.jpg



Looking at dense veg on landward slope. (Spring 2016)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	М	Issue No.		28		
LIVI Start	0.00	rtating	IVI	VI 13300 140.		20		
LM End	1.33	Issue Type +	Ma	Location *		WS		
Category Earthen Levee			GPS La	atituc	de/Longitude			
Category	alegory			Start		End		
Item	Vegetation			37.296305°		37.286489°		
item				-120.880567 °		-120.865966 °		
DWR ID	DWR_NA0	010_02A_f _ 20	15_28					
	Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.								

Inspector Comment

LM Start	0.00	Rating **	М	Issue No.	28 (cont)
LM End	1.33	Issue Type +	Ma	Location *	WS



Looking north at dense veg on waterward slope. (Fall 2016)

Photo 2 of 2: FA_2016_NA0010_119_28_20161007_00008.jpg



Looking north at dense veg on waterward slope. (Spring 2016)

LM Start	0.75	Rating **	U	Issue No.		5		
LM End	0.75	Issue Type +	Ma	Location *	WS			
Category Earthen Levee			GPS La	atitud	le/Longitude			
			Start		End			
Itom	Item Erosion / Bank Caving			37.2868	77°	37.286877°		
пеш				-120.8742	22 °	-120.874222 °		
DWR ID	DWR_NA0	010_02A_s _ 20	012_5					
	Comment Code							
E2 : Schedule repair of erosion site prior to the next inspection.								
Inspector Comment								

A field investigation report in on file. For more information and pictures see field investigation report #4301.

Photo 1 of 3: FA_2016_NA0010_119_5_20161007_00003.jpg



Looking north at erosion on waterward slope. (Fall 2014)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.75	Rating **	U	Issue No.		5 (cont)	
LM End	0.75	Issue Type +	Ma	Location *		WS	
Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
ltom	Erosion / Bank Caving			37.2868	77°	37.286877 °	
Item				-120.874222 °		-120.874222 °	
DWR ID DWR_NA0010_02A_s _ 2012_5							

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

A field investigation report in on file. For more information and pictures see field investigation report #4301.

LM Start	0.75	Rating **	U	Issue No.	5 (cont)
LM End	0.75	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2016_NA0010_119_5_20161007_00004.jpg



Looking north at large erosion on waterward slope. (Fall 2013)

Photo 3 of 3: FA_2016_NA0010_119_5_20161007_00005.jpg



Looking south at large erosion on waterside slope. (Spring 2012)

LM Start	6.85	Rating **	М	Issue No.		22	
LM End	6.85	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.2428	33°	37.242833	0
пеш				-120.8222	70°	-120.822270	0
DWR ID	DWR_NA0	010_02A_f _ 20	16_22				
		Comn	nent Coo	de			

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Noticed several burrow holes on the levee crown. It does not seem to be rodent holes or gopher holes. It could be moles.

Photo 1 of 2 : FA_2016_NA0010_119_22_20161024_00069.jpg



Looking at rodent hole on levee crown.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

		Ti .				
LM Start	6.85	Rating **	М	Issue No.		22 (cont)
LM End	6.85	Issue Type +	Ма	Location *		CR
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Animal Co	ontrol		37.2428	33°	37.242833 °
пеш				-120.822270 °		-120.822270 °
DWR ID	DWR_NA0	010_02A_f _ 20	16_22			
		Comn	nent Cod	le		
A1 : Exterr	minate rod	ents and back	fill and c	ompact or	grou	t burrows.
	Inspector Comment					

Noticed several burrow holes on the levee crown. It does not seem to be rodent holes or gopher holes. It could be moles.



Looking at close-up of rodent hole on levee crown.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	7.96	Rating **	М	Issue No.		16	
LM End	9.19	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Crown Su	rface / Depres	ssions /	37.2301	98°	37.220483°	
пеш	Rutting			-120.810702 °		-120.792864°	
DWR ID	DWR_NA0	010_02B_f _ 20	16_16				
		Comn	nent Coc	de			
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.			
		Inspecto	or Comm	nent			
Rutting cause by driving to fast.							

LM Start	9.42	Rating **	М	Issue No.		17		
LM End	9.42	Issue Type +	Ма	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thi	n Trees		37.2201	99°	37.220199°		
пеш				-120.7887	48°	-120.788748°		
DWR ID	DWR_NA0	010_02B_f _ 20	16_17					
		Comn	nent Cod	de				
T1: Trim t	rees to at l	east five feet	above g	round level.				
			_					
		Inspecto	or Comm	nent				
Trim back	dead tree	limb on landw	ard toe.					



Looking at dead tree limb on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	9.60	Rating **	М	Issue No.		18	
LM End	9.60	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		37.2207	89°	37.220789°	
пеш				-120.7857	20°	-120.785720°	
DWR ID	DWR_NA0	010_02B_f _ 20	16_18				
		Comn	nent Cod	de			
T1 : Trim t	rees to at I	east five feet	above g	round level.			
		Inspecto	or Comm	nent			
Remove dead tree limbs on waterward slope.							

LM Start	9.60	Rating **	M	Issue No.	18 (cont)
LM End	9.60	Issue Type +	Ma	Location *	WS



Looking south at untrimmed tree on waterward slope.

Photo 2 of 2: FA_2016_NA0010_120_18_20161024_00008.jpg



Looking north at untrimmed tree on waterward slope.

	0.70	D-4: **		Innua Na			
LM Start	9.76	Rating **	М	Issue No.		5	
LM End	9.76	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		37.2189	959°	37.218959 °	
пеш				-120.7843	856°	-120.784356 °	
DWR ID	DWR_NA0	010_02B_s _ 20	016_5				
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspect	or Comm	nent			
Broken tre	e limbs on	landward toe					



Looking northwest at broken tree limb on landward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	10.94	Rating **	М	Issue No.		14	
LM End	10.94	Issue Type +	Ма	Location *		LS	
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude	
Category			Start		End		
Item	Encroach	ments		37.2057	'11 °	37.205711°	
item				-120.774741 °		-120.774741 °	
DWR ID	DWR_NA0010_02B_f _ 2015_14						
		Comn	nent Cod	de			
PR : Pruni	ngs						
		Inspecto	or Comm	nent			
Prunings o	n landwar	d slope.					



Looking at prunings on landward slope.

LM Start	12.21	Rating **	М	Issue No.		1
LM End	12.21	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
ltem Encroachments			37.1915	28°	37.191528°	
			-120.764541°		-120.764541 °	
DWR ID	DWR_NA0	010_02B_f _ 20	14_1			
		Comn	nent Cod	le		
TR : Tree	or limb					
		Inspecto	or Comm	ent		
Fallen tree	limbs on I	andward slop	e.			

LM Start	12.21	Rating **	М	Issue No.	1 (cont)
LM End	12.21	Issue Type +	Ма	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_120_1_20161007_00001.jpg



Looking northwest at tree limb on waterward slope.

Photo 2 of 2: FA_2016_NA0010_120_1_20161007_00002.jpg



Looking southwest at tree limb on waterward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	13.42	Rating **	U	Issue No.		167
LM End	13.42	Issue Type +	Ма	Location *		WS
Cotomoni	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Trim / Thin Trees			37.1763	879°	37.176379°	
item				-120.7622	255°	-120.762255 °
DWR ID DWR_NA0010_02B_s _ 2015_167						
		Comn	nent Cod	le		
T3 : Trim a flood fight.		es to allow vis	sibility of	the ground	and	d room to
		Inspecto	or Comm	ent		
Dense tree	es on wate	rward slope.				

Photo 1 of 1: FA_2016_NA0010_120_167_20161024_00009.jpg

Looking south at untrimmed trees on waterward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.19	Rating **	М	Issue No.		67
LM End	0.19	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Category		Start		End		
Item	Animal Co	ontrol		37.1090	13°	37.109013°
пеш				-120.587799 °		-120.587799 °
DWR ID	DWR_NA0	010_03_s _ 201	5_67			
		Comn	nent Coo	de		
A3 : No roccompact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		
Rodent ho	les noted a	at landward to	e.			

No Photos

LM Start 1.54 Rating ** Issue No. 65 Issue Type + Location * 1.54 Ma LS LM End Earthen Levee GPS Latitude/Longitude Category **Animal Control** 37.094270° 37.094270° Item -120.573112° -120.573112° DWR ID DWR NA0010 03 s 2015 65

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

+ Issue Type

C : Corrected A/W : Acceptable but Monitor & Maintain Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	Rating **		Issue No.			
LM End	Issue Type +		Location *			
Category			GPS La	titud	e/Longitude	
Calegory			Start		End	
Item				0		0
пеш				0		0
DWR ID						
	Comn	nent Cod	de			
	Inspecto	or Comm	nent			
No issues	were reported.					

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	1.66	Rating **	М	Issue No.		80
LM End	1.75	Issue Type +	Ma	Location *		LS
Earthen Levee		GPS L	atitud	le/Longitude		
Category			Start		End	
Item	Animal Control			37.2634	48°	37.262225°
пеш			-120.802715 °		-120.802296°	
DWR ID DWR_NA0010_05_f _ 2015_80						
		Comn	nent Cod	de		
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		
Several ro	dent holes	on levee crov	vn within	this sectio	n.	



Looking at typical view of rodent holes within this section on landward slope.

LM Start	2.82	Rating **	С	Issue No.		1308
LM End	2.82	Issue Type +	Ма	Location *	LS	
Category Earthen Levee			GPS La	atitud	e/Longitude	
			Start		End	
Item	Encroachments			37.2567	83°	37.256783°
пеш				-120.7854	38°	-120.785438 °
DWR ID DWR_NA0010_05_s _ 2015_1308						
		Comn	nent Cod	de		
TR : Tree	or limb					
		Inspecto	or Comm	nent		
Dead tree	limbs at la	ndward toe.				

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	3.20	Rating **	М	Issue No.		6	
LM End	3.35	Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
			Start		End		
Item	Animal Co	ontrol		37.2566	35°	37.255170°	
item				-120.7789	35°	-120.776882 °	
DWR ID	DWR ID DWR_NA0010_05_s _ 2014_6						
Comment Code							

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

No rodent visible but several rodent holes visible on levee crown.



Looking at typical view of rodent holes on waterward slope.

LM Start	6.52	Rating **	М	Issue No.		15	
LM End	6.52	Issue Type +	Ма	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	Animal Control			97°	37.230497	0
пеш		-120.7272	63°	-120.727263	0		
DWR ID	DWR_NA0	010_05_s _ 201	2_15				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	6.59	Rating **	M	Issue No.		1309	
LM End	6.59	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Slope Sta	Slope Stability			82°	37.229682	0
пеш				-120.7263	05 °	-120.726305	0
DWR ID	DWR_NA0	010_05_s _ 201	5_1309				

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Landward slope damage caused by animal foot traffic.

Photo 1 of 2 : FA_2016_NA0010_123_1309_20161007_00015.jpg



Looking north at damaged landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	6.59	Rating **	М	Issue No.		1309 (cont)
LIVI Start	0.59					• • • • • • • • • • • • • • • • • • • •
LM End	6.59	Issue Type +	Ma	Location *		LS
Cotogon Earthen Levee		GPS La	titud	e/Longitude		
Category			Start		End	
Item	Slope Stability			37.2296	82 °	37.229682 °
item				-120.7263	05 °	-120.726305°
DWR ID DWR_NA0010_05_s _ 2015_1309						
		Comn	nent Cod	de		
S2 : Repai where pos		slope damag	jed by fo	ot traffic an	d pr	event access
		Inspecto	or Comm	nent		
Landward	slope dam	age caused b	y anima	foot traffic.		
	·		•			



Looking east at damaged landward slope.

LM Start	8.08	Rating **	М	Issue No.		4
LM End	8.08	Issue Type +	Ма	Location *		LS
Category	Earthen Levee			GPS La	atitud	e/Longitude
Category			Start		End	
Item	Animal Co	Animal Control			00°	37.213600°
пеш				-120.7066	30°	-120.706630°
DWR ID DWR_NA0010_05_s _ 2012_4						
		_				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

NΩ	Photos	

LM Start	8.85	Rating **	М	Issue No.		5
LM End	8.85	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	e/Longitude	
Category			Star			End
Item	Animal Co	ontrol		37.2057	78°	37.205778°
пеш				Location * GPS Latitu Start 37.205778 -120.696843	43°	-120.696843°
DWR ID	DWR_NA0	010_05_s _ 201	2_5			
		_				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	II · I Inaccentable	AMM · Accentable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	13.01	Rating **	М	Issue No.		2	
LM End	13.01	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		37.1755	76°	37.175576°	
пеш				-120.6387	-120.638755 °		
DWR ID DWR_NA0010_05_s _ 2016_2							
		Comn	nent Cod	de			
TR : Tree or limb							
		Inspecto	or Comm	nent			
Downed tre	ee on land	ward toe.					



Looking west at down tree at landward toe.

LM Start	13.59	Rating **	С	Issue No.		1311	
LM End	13.59	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory						End	
Item	Encroachments			37.1696	07°	37.169607°	
пеш				-120.631358°		-120.631358°	
DWR ID DWR_NA0010_05_s _ 2015_1311							
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspect	or Comm	nent			
Downed tr	ee on land	ward slope.					

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

		D (1 ++		I N			
LM Start	25.59	Rating **	М	Issue No.		9	
LM End	25.64	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start	Start End		
Item	Animal Co	ontrol		37.0476	30°	37.047042 °	
item				-120.4885	30°	-120.488092 °	
DWR ID DWR_NA0010_05_s _ 2012_9							
		Comn	nent Cod	de			
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and	
		Inspecto	or Comm	nent			

No Photos

LM Start	29.68	Rating **	М	Issue No.		171		
LM End	29.80	Issue Type +	Ма	Location *		WS		
Catagoni	Earthen L	evee		GPS Latitude/Longitude				
Category				Start E		End		
Item	Erosion /	Bank Caving		37.0202	72°	37.018712°		
пеш				-120.433737°		-120.432682°		
DWR ID DWR_NA0010_05_s _ 2014_171								
		Comn	nent Cod	de				
E1 : Note a	and monito	or erosion site						
			_					
		Inspecto	or Comm	nent				
Waterside	Waterside erosion caused by livestock.							

LM Start	29.68	Rating **	М	Issue No.	171 (cont)
LM End	29.80	Issue Type +	Ma	Location *	WS

Photo 1 of 2: FA_2016_NA0010_123_171_20161024_00208.jpg



Looking south at animal erosion on waterward slope.

Photo 2 of 2: FA_2016_NA0010_123_171_20161024_00209.jpg



Looking north at animal erosion on waterward slope.

*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Maintenance Deficiancy

C : Corrected Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Acceptable M : Minimally Acceptable Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.89	Rating **	М	Issue No.		16	
LM End	29.89	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start	Start End		
Item	Animal Co	ontrol		37.0175	640°	37.017540°	
Item				-120.431955 °		-120.431955 °	
DWR ID DWR_NA0010_05_s _ 2012_16							
		Comn	nent Cod	de			
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

	_					
LM Start	1.84	Rating **	M	Issue No.		125
LM End	1.84	Issue Type +	Ма	Location *		LS
Cotagon Earthen Levee		GPS Latitude/Longitude				
Category		Start	End			
Animal Control		37.2595	27°	37.259527°		
			-120.803300 °		-120.803300 °	
DWR ID DWR_NA0010_06_s _ 2012_125						
		Comn	nent Cod	le		
A1 : Exterr	minate rod	ents and back	fill and c	compact or	grou	t burrows.
		Inspecto	or Comm	ent		

No Photos

LM Start	2.53	Rating **	М	Issue No.		76
LM End	2.53	Issue Type +	Ма	Location *	WS	
Category Earthen Levee		GPS La	atitud	le/Longitude		
				Start		End
Item	Animal Control			37.2529	35°	37.252935°
			-120.7943	49°	-120.794349°	
DWR ID	DWR_NA0	010_06_f _ 201	6_76			
		Comn	nent Cod	le		
A1 : Exterminate rodents and backfill and compact or grout burrows.						t burrows.
		Inspecto	or Comm	nent		

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.61	Rating **	A/W	Issue No.	16		
LM End	4.61	Issue Type +	Ma	Location *	CR		
Catagory	Earthen Levee			GPS La	atitude	e/Longitude	
Category				Start		End	
ltom	Animal Control			37.2440	12°	37.244012	0
Item				-120.7613	72°	-120.761372	0
DWR ID	DWR_NA0	010_06_s _ 201					
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and

compact or grout burrows.

Inspector Comment

Several rodent holes on levee crown.

No Photos

LM Start	4.66	Rating **	М	Issue No.		10
LM End	4.66	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS La	titud	e/Longitude	
Calegory				Start		End
Item	Animal Co	ontrol		37.24354	40°	37.243540°
item				-120.76078	32°	-120.760782 °
DWR ID	DWR_NA0	010_06_s _ 201	2_10			·

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes next to fence post on landward slope.

LM Start	4.66	Rating **	М	Issue No.	10 (cont)
LM End	4.66	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_124_10_20161007_00016.jpg



Looking at rodent hole along fence line on landward slope.

Photo 2 of 2: FA_2016_NA0010_124_10_20161007_00017.jpg



Looking at typical rodent holes on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.98	Rating **	С	Issue No.		1		
LM End	5.98	Issue Type +	Ma	Location *		WS		
Category Interior Drainage & Piping Systems		GPS La	atitud	e/Longitude				
		Start		End				
Item	Erosion Areas			37.2363	86°	37.236386°		
пеш					06°	-120.739706°		
DWR ID	DWR_NA0	010_06_s _ 201	6_1					
	Comment Code							
	Inspector Comment							

Erosion is undermining the headwall on both sides of the drainage structure.

LM Start	6.06	Rating **	М	Issue No.		22	
LM End	6.06	Issue Type +	Ma	Location *	LS		
Catagory	Category Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Animal Control			37.2357	77°	37.235777°		
Category Name	-120.7385	98°	-120.738598°				
DWR ID	DWR_NA0010_06_s _ 2012_22						
	Comment Code						

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

NIO	Dhotoc

No Photos

LM Start	6.09	Rating **	М	Issue No.		21	
LM End	6.09	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	Animal Control			23°	37.235623	0
item				-120.73801	7°	-120.738017	0
DWR ID	DWR_NA0010_06_s _ 2012_21						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown		II · I Inaccentable	AMM · Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	7.10	Rating **	М	Issue No.		7
LM End	7.10	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Animal Co	ontrol		37.2266	75°	37.226675°
item				-120.7244	98°	-120.724498°
DWR ID	DWR_NA0010_06_s _ 2012_7					
		Comn	nent Cod	de		
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.
			_			
		Inspecto	or Comm	nent		

No Photos

LM Start	9.74	Rating **	М	Issue No.		6	
LM End	11.00	Issue Type +	Ma	Location *		CR	
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item		rface / Depres	ssions /	37.2006	97°	37.187645°	
Rutting			-120.692927 °		-120.676996°		
DWR ID	DWR_NA0	010_06_s _ 201	2_6				
		Comn	nent Cod	le			
C2 : Repai	ir depressi	ons or ruts in	the crow	n or slope.			
		Inspecto	or Comm	ent			
Levee crov	Levee crown should be regraded due to excessive rutting.						

No Photos

U : Unacceptable

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	11.25	Rating **	М	Issue No.	75		
LM End	11.71	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory			Start		End		
Item	Vegetation			37.186168°		37.185991 °	
item				-120.672836 °		-120.664715 °	
DWR ID	DWR_NA0	010_06_f _ 201	6_75				
		Comn	nent Coo	de			
V2 : Remo	V2 : Remove the wild growth other than native grasses from the levee slopes.						
	Inspector Comment						

No Photos

LM Start	11.25	Rating **	M	Issue No.		73	
LM End	12.60	Issue Type +	Ma	Location *	LS		
Catagory	Earthen L	evee		GPS La	titud	e/Longitude	
Category				Start		End	
Vegetation				37.18616	8°	37.173115	0
пеш				-120.67283	6°	-120.664612	0
DWR ID	DWR_NA0010_06_f _ 2016_73						

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

LM Start	11.49	Rating **	М	Issue No.		14	
LM End	11.49	Issue Type +	Ма	Location *	WS		
Category Earthen Levee			GPS La	titud	e/Longitude		
Category				Start		End	
Item	Trim / Thi	n Trees		37.18618	9°	37.186189	0
пеш				-120.66847	'6	-120.668476	0
DWR ID	DWR_NA0						
		Comn	nent Coc	łe			

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Almond tree located along Sandy Mush Rd. on waterward slope.



Photo 1 of 1: FA_2016_NA0010_124_14_20161007_00018.jpg



Looking west at tree on waterward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	12.06	Rating **	М	Issue No.		74	
LM End	12.60	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory			Start		End		
Vegetation			37.1808	96°	37.173115°		
пеш	item			-120.664560 °		° -120.664612°	
DWR ID	DWR_NA0	010_06_f _ 201	6_74				
		Comn	nent Cod	de			
V2 : Remo slopes.	ve the wild	d growth other	than na	tive grasse	s fro	m the levee	
Inspector Comment							

No Photos

LM Start	14.94	Rating **	М	Issue No.		1212	
LM End	14.94	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Animal Control			37.1622	87°	37.162287	0
пеш				-120.6287	91 °	-120.628791	0
DWR ID	DWR_NA0	010_06_s _ 201					
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several rodent holes noted on levee crown and landside and waterside slopes.

Photo 1 of 1 : FA_2016_NA0010_124_1212_20161007_00040.jpg



Looking at rodent hole on levee crown.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	15.46	Rating **	М	Issue No.		124	
LM End	15.70	Issue Type +	Ma	Location *		LS	
Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Animal Control			37.1589	20°	37.157217°		
item	Item				32°	-120.618915 °	
DWR ID DWR_NA0010_06_s _ 2012_124							
Comment Code							
A1 : Exterr	A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment							

No Photos

LM Start	17.72	Rating **	М	Issue No.		67
LM End	18.69	Issue Type +	Ma	Location *		WS
Earthen Levee GPS Latitu					atitud	le/Longitude
Category			Start		End	
Item	Vegetation			37.1338	33°	37.120953°
item				-120.5945	68°	-120.587930 °
DWR ID DWR_NA0010_06_f _ 2016_67						
0 10 1						

No Photos

Comment Code V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

LM Start	17.72	Rating **	М	Issue No.		72
LM End	18.69	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End		
Item	Vegetation			37.1338	33°	37.120953°
item				-120.5945	68°	-120.587930 °
DWR ID DWR_NA0010_06_f _ 2016_72						
Comment Code						

No Photos

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

* Location LS: Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable WS: Water Side C : Corrected A/W : Acceptable but Monitor & Maintain U : Unacceptable

N : Not Inspected/Rated

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.		1211
LM End	19.14	Issue Type +	Ma	Location *	WS	
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Animal Co	ontrol		37.1147	'93 °	37.114793°
пеш				-120.5875	82°	-120.587582 °
DWR ID DWR_NA0010_06_s _ 2015_1211						
Comment Code						
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.
Inspector Comment						
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope						

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	10 11	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : FA_2016_NA0010_124_1211_20161007_00035.jpg



Looking at rodent hole on waterward slope. Spring 2016

Photo 2 of 5: FA_2016_NA0010_124_1211_20161007_00036.jpg



Looking at several rodent holes on waterward slope. (Fall 2015)

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS



Looking at close-up view of large rodent hole on waterward slope. (Spring 2015)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)		
LM End	19.14	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Animal Control			37.114793°		37.114793		
item	tem				82 °	-120.587582	
DWR ID DWR_NA0010_06_s _ 2015_1211							
Comment Code							

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS



Looking at large rodent hole on waterward slope. Spring 2015

Photo 5 of 5: FA_2016_NA0010_124_1211_20161007_00039.jpg



Looking west at several rodent holes on waterward slope. Spring 2015

LM Start	20.79	Rating **	U	Issue No.		1209	
LM End	20.88	Issue Type +	Ma	Location *		LS	
Category	evee		GPS Latitude/Longitude				
Calegory			Start		End		
Item	Erosion /	Bank Caving		37.1131	07°	37.112176°	
пеш	m .				'82 °	-120.562516 °	
DWR ID	DWR ID DWR_NA0010_06_s _ 2015_1209						
		Comn	nent Cod	de			
E1: Note a	and monito	or erosion site					
Inspector Comment							
Erosion on	Erosion on landward slope greater than 3 inches. Erosion caused by						

livestock.

Photo 1 of 2 : FA_2016_NA0010_124_1209_20161007_00033.jpg



Looking north at livestock erosion on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	20.79	Rating **	U	Issue No.	•	1209 (cont)	
LM End	20.88	Issue Type +	Ma	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Erosion /		37.113107°		37.112176°		
item				-120.563782 °		° -120.562516°	
DWR ID DWR_NA0010_06_s _ 2015_1209							
Comment Code							
E1 : Note a	and monito	or erosion site					
		Inspecto	or Comm	nent			
Erosion on landward slope greater than 3 inches. Erosion caused by livestock.							



Looking northeast at livestock erosion on landward slope.

LM Start	20.80	Rating **	M	Issue No.		66	
LM End	24.42	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.1130	14°	37.072994	٥
пеш				-120.5635	85 °	-120.521192	٥
DWR ID	DWR ID DWR_NA0010_06_f _ 2016_66						
		_					

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

3°
2°
_

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

* Location		** Rating	
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated
WS: Water Side		M : Minimally Acceptable	C : Corrected
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain

U : Unacceptable

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

-							
LM Start	22.99	Rating **	М	Issue No.		8	
LM End	23.05	Issue Type +	Ма	Location *	LS		
Catagonia Earthen Levee				GPS La	atitud	le/Longitude	
Category	Category					End	
Item	Animal Co		37.0886	63°	37.087968°		
пеш	item				93°	-120.537485°	
DWR ID	DWR_NA0	010_06_s _ 201	2_8				
		Comn	nent Coc	de			
	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment							

No Photos

LM Start	24.58	Rating **	М	Issue No.		5	
LM End	24.93	Issue Type +	Ма	Location *		LS	
Category	Category Earthen Levee				GPS Latitude/Longitude		
Calegory						End	
Item	Slope Sta	ope Stability			8°		0
пеш					0 °		0
DWR ID	DWR_NA0010_06_s _ 2012_5						

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Landside erosion caused by livestock.

LM Start	24.58	Rating **	М	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ма	Location *	LS

Photo 1 of 3: FA_2016_NA0010_124_5_20161007_00013.jpg



Looking north at livestock erosion on landward slope. (Spring 2015)

Photo 2 of 3: FA_2016_NA0010_124_5_20161007_00014.jpg



Looking north at livestock erosion on landward slope. (Spring 2014)

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	24.58	Rating **	М	Issue No.		5 (cont)			
LM End	24.93	Issue Type +	Ma	Location *		LS			
Cotogony	Category Earthen Levee				GPS Latitude/Longitude				
Calegory					Start				
Item	Slope Sta	bility		37.0711	98 °		0		
item	em				20°		0		
DWR ID									
	Commont Code								

Comment Code

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Landside erosion caused by livestock.

Photo 3 of 3: FA_2016_NA0010_124_5_20161007_00015.jpg



Looking north at livestock erosion on landside slope. (Fall 2014)

Photo 1 of 1: FA 2016 NA0010 124 1208 20161007 00032.jpg

LM Start	26.13	Rating **	М	Issue No.		1208
LM End	26.13	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory	Category					End
Item	Animal Co	Animal Control			22°	37.054222°
ILEIII				-120.5008	62°	-120.500862°
DWR ID	DWR_NA0	010_06_s _ 201	5_1208			·

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Noted several rodent holes next to and within rock revetment on landward slope.



Rodent holes on landward slope.

LM Start	27.64	Rating **	М	Issue No.		3	
LM End	27.97	Issue Type +	Ma	Location *		LS	
Category	Category Earthen Levee				GPS Latitude/Longitude		
Category						End	
Item	Slope Stability				55°	37.032887	0
пеш				-120.4843	95°	-120.481225	0
DWR ID	DWR_NA0	010_06_s _ 201	2_3				

Comment Code

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.

Photo 1 of 4: FA_2016_NA0010_124_3_20161007_00009.jpg



Looking north at livestock erosion on landward slope. Fall 2015

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	27.64	Rating **	М	Issue No.		3 (cont)
LM End	27.97	Issue Type +	Ма	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory	Category					End
Item	Slope Sta	bility		37.0369	55 °	37.032887°
пеш				-120.4843	95 °	-120.481225°
DWR ID	DWR_NA0	010_06_s _ 201				

Comment Code S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.

LM Start	27.64	Rating **	М	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS



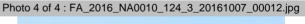
Looking north at livestock erosion on landward shoulder and slope.(Spring 2015)

Photo 3 of 4: FA_2016_NA0010_124_3_20161007_00011.jpg



Looking north at livestock erosion on landside shoulder and slope. (Fall 2014)

LM Start	27.64	Rating **	М	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS





Looking north at livestock erosion on landward slope. (Spring 2013)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	28.47	Rating **	M	Issue No.		19	
LM End	28.71	Issue Type +	Ma	Location *	LS		
Earthen Levee				GPS La	atitud	le/Longitude	
Calegory	Category			Start		End	
Item	Animal Control			37.0299	37°	37.030102	0
пеш				-120.4733	84°	-120.469122	0
DWR ID	DWR_NA0	010_06_s _ 201	5_19				
		Comn	nent Cod	le			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
Inspector Comment							

No Photos

LM Start	30.81	Rating **	U	Issue No.	1207			
LM End	31.06	Issue Type +	Ma	Location *	LS			
Catagoria Earthen Levee				GPS La	atitud	e/Longitude		
Category		Start		End				
Item	Erosion / Bank Caving			37.0216	15°	37.018428	0	
пеш				-120.437587°		-120.435378	0	
DWR ID DWR_NA0010_06_s _ 2015_1207								
Comment Code								

E1: Note and monitor erosion site.

Inspector Comment

Landward erosion greater than 1" in depth and greater than 3" in length. Erosion caused by livestock traffic.

LM Start	30.81	Rating **	U	Issue No.	1207 (cont)
LM End	31.06	Issue Type +	Ма	Location *	LS

Photo 1 of 2: FA_2016_NA0010_124_1207_20161007_00030.jpg



Looking northeast at livestock erosion on landward slope.

Photo 2 of 2: FA_2016_NA0010_124_1207_20161007_00031.jpg



Looking south at livestock erosion on landward slope.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M: Maintenance Deficiancy

M : Minimally Acceptable CR : Corrected Ob: Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Not Inspected/Rated M: Maintenance Deficiancy
Ob: Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	31.07	Rating **	М	Issue No.		64			
LM End	35.31	Issue Type +	Ma	Location *		LS			
Cotogony	Earthen Levee				atitud	e/Longitude			
Category				Start		End			
Item	Vegetation			37.0183	36°	36.974630°			
пеш				-120.4353	14°	-120.383942°			
DWR ID DWR_NA0010_06_f _ 2016_64									
		Comn	nent Cod	de					
V2 : Remo	ove the wild	growth other	than na	tive grasse	s fro	m the levee			
		Inspecto	or Comm	nent					

No Photos

LM Start	31.07	Rating **	М	Issue No.		63		
LM End	35.31	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS La	atitud	le/Longitude		
				Start		End		
Item	Vegetatio	n		37.0183	36°	36.974629°		
пеш				-120.4353	14°	-120.383941 °		
DWR ID	DWR_NA0	010_06_f _ 201	6_63					
Comment Code								
V2 : Remove the wild growth other than native grasses from the levee								

No Photos

slopes.

Inspector Comment

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

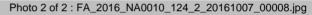
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	31.10	Rating **	U	Issue No.		2			
LM End	31.10	Issue Type +	Ма	Location *	LS				
Category	Earthen Levee				atitud	le/Longitude			
Calegory				Start		End			
Item	Animal Co	ontrol		37.0179	55°	37.017955 °			
item				-120.4350	17°	-120.435017 °			
DWR ID	DWR_NA0	010_06_s _ 201	2_2						
		Comn	nent Cod	de					
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	it burrows.			
		Inspecto	or Comm	nent					

Photo 1 of 2 : FA_2016_NA0010_124_2_20161007_00007.jpg	

Looking west at rodent holes on landside slope and toe near fence line.

LM Start	31.10	Rating **	U	Issue No.	2 (cont)
LM End	31.10	Issue Type +	Ma	Location *	LS





Looking at typical rodent hole on landside slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.50	Rating **	М	Issue No.		29
LM End	0.50	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS La	titud	e/Longitude
Calegory						End
Item	Animal Co	ontrol		37.2587	22 °	37.258722°
пеш				-120.7648	67°	-120.764867°
DWR ID DWR_NA0010_07_s _ 2012_29						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several rodent holes noted on landward and waterward slope and shoulder.

Photo 1 of 1 : FA_2016_NA0010_125_29_20161007_00005.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	1.22	Rating **	М	Issue No.		1
LM End	1.22	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Animal Co	ontrol		37.2643	87°	37.264387°
item				-120.7558	05°	-120.755805°
DWR ID	DWR_NA0	010_07_f _ 201	2_1			

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

LM Start	1.22	Rating **	М	Issue No.	1 (cont)
LM End	1.22	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2016_NA0010_125_1_20161007_00001.jpg



Looking north at several rodent holes on landward slope.

Photo 2 of 2: FA_2016_NA0010_125_1_20161007_00002.jpg



Looking at east at active rodent holes on landside berm.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.25	Rating **	С	Issue No.		11
LM End	1.25	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		37.2643	67°	37.264367°
пеш	item				18°	-120.755218°
DWR ID	DWR_NA0	010_07_f _ 201	4_11			
		Comn	nent Cod	de		
S2 : Repai where pos		slope damag	ed by fo	ot traffic an	d pr	event access
		Inspecto	or Comm	nent		

No Photos

LM Start	1.51	Rating **	M	Issue No.		6	
LM End	1.51	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Animal Control			37.2638	85°	37.263885	0	
item				-120.750527°		-120.750527	0
DWR ID	DWR_NA0	010_07_s _ 201	4_6				
		Comn	nent Cod	de			
A1 : Exterr	ninate rod	ents and back	fill and c	compact or	grou	t burrows.	
		Inspecto	or Comm	nent			

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.71	Rating **	М	Issue No.		5	
LM End	1.72	Issue Type +	Ma	Location *		LS	
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Animal Control			37.2625	70°	37.262467	0	
пеш	item				53°	-120.747180	0
DWR ID	DWR_NA0	010_07_s _ 201	3_5				
		Comn	nent Cod	de			
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
		Inspecto	or Comm	nent			

No Photos

LM Start	1.94	Rating **	С	Issue No.		187	
LM End	1.94	Issue Type +	Ма	Location *		CR	
Category Earthen Levee			GPS La	titud	e/Longitude		
Calegory				Start		End	
Item	Animal Co	ontrol		37.2610	32°	37.261032	0
пеш				-120.74370	05°	-120.743705	0
DWR ID	DWR_NA0	010_07_s _ 201	5_187				
0 10 1							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	2.09	Rating **	M	Issue No.		12
LM End	2.09	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Animal Co	ontrol		37.2591	87°	37.259187°
пеш				-120.7425	51 °	-120.742551 °
DWR ID	DWR_NA0	010_07_f _ 201	4_12			:

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent activity noted next to fence post.

Photo 1 of 2 : FA_2016_NA0010_125_12_20161007_00003.jpg



Looking east at rodent hole next to fence post on landward shoulder.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.09	Rating **	М	Issue No.		12 (cont)				
LM End	2.09	Issue Type +	Ma	Location *		LS				
Category	Earthen L	evee		GPS La	atitud	le/Longitude				
Calegory				Start		End				
Item	Animal Co	ontrol		37.2591	87°	37.259187°				
пеш				-120.7425	51 °	-120.742551 °				
DWR ID DWR_NA0010_07_f _ 2014_12										
		Comn	nent Cod	de						
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and				
		Inspecto	or Comm	nent						
Rodent activity noted next to fence post.										



Looking at rodent activity next to fence post

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.43	Rating **	М	Issue No.		15			
LM End	0.43	Issue Type +	Ma	Location *		WS			
Category	Earthen L	evee		GPS La	titud	le/Longitude			
Calegory				Start		End			
Item	Animal Co	ontrol		37.2570	19°	37.257019°			
пеш			-120.7644	88°	-120.764488 °				
DWR ID	DWR ID DWR_NA0010_08_s _ 2016_15								
		Comn	nent Cod	de					
A1 : Exter	minate rod	ents and back	fill and o	compact or o	grou	it burrows.			
			_						
		Inspect	or Comm	nent					

No Photos

LM Start	1.16	Rating **	М	Issue No.		5			
LM End	1.16	Issue Type +	Ma	Location *		CR			
Category	Earthen L	evee		GPS La	atituc	de/Longitude			
Category				Start		End			
Item		rface / Depres	ssions /	37.2632	43°	37.263243°			
пеш	Rutting			-120.7563	72 °	-120.756372°			
DWR ID DWR_NA0010_08_s _ 2016_5									
		Comn	nent Cod	de					
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.					
Inspector Comment									
Depression noted on levee crown.									

Photo 1 of 1 : FA_2016_NA0010_126_5_20161007_00002.jpg



Looking west at depression on toward landward shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

	4.00	D-4: **		Innua Na					
LM Start	1.20	Rating **	М	Issue No.		2			
LM End	1.20	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	titud	le/Longitude			
Calegory	Category			Start		End			
Item	Animal Co	ontrol		37.263182°		37.263183°			
item				-120.75565	° 0	-120.755637°			
DWR ID DWR_NA0010_08_s _ 2012_2									
Comment Code									
A3 : No ro	dents visib	le, but rodent	burrows	visible; nee	d to	backfill and			

compact or grout burrows.

Inspector Comment

No Photos

LM Start	1.38	Rating **	М	Issue No.		8		
LM End	1.38	Issue Type +	Ма	Location *		LS		
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Animal Control			37.2631	75°	37.263175°		
item		-120.7523	07°	-120.752307°				
DWR ID DWR_NA0010_08_s _ 2013_8								

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment



Looking west at rodent holes on landward slope.

LM Start	1.61	Rating **	М	Issue No.		1
LM End	1.61	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS La	atitud	le/Longitude
Category				Start		End
Item	Animal Co	ontrol		37.2618	42°	37.261842°
пеш				-120.7485	10°	-120.748510°
DWR ID	DWR_NA0	010_08_s _ 201	2_1			*

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side		C : Corrected	
CR : Crown	M : Minimally Acceptable	A/W : Acceptable but Monitor & Maintain	Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.07	Rating **	М	Issue No.		7		
LM End	2.13	Issue Type +	Ма	Location *		LS		
Cotogony	Earthen L	evee		GPS La	atituc	le/Longitude		
Category				Start		End		
Item	Animal Co	ontrol		37.2580	63°	37.257688°		
пеш				-120.7424	60°	-120.741573°		
DWR ID DWR_NA0010_08_s _ 2012_7								
		Comn	nent Cod	de				
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	it burrows.		
Inspector Comment								
No rodent activity and no rodent holes noted.								



Looking at typical rodent hole on landside slope near headwall.

LM Start	3.40	Rating **	М	Issue No.		3		
LM End	3.54	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee	GPS Latitude/Longitud					
Calegory				Start		End		
Item	Animal Co	ontrol		37.2530	52°	37.253600°		
пеш				-120.7226	47 °	-120.720198°		
DWR ID DWR_NA0010_08_s _ 2012_3								
	Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Noted several rodent holes on landward slope within this reach.

Photo 1 of 1: FA_2016_NA0010_126_3_20161007_00001.jpg



Looking at typical view of rodent holes on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.87	Rating **	U	Issue No.		5
LM End	0.87	Issue Type +	Ма	Location *		CR
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Repair Ga	ites		37.2200	65°	37.220065 °
пеш				-120.698350 °		-120.698350 °
DWR ID DWR_NA0010_09_s _ 2016_5						
		Comn	nent Cod	de		
		Inspecto	or Comm	nent		
Gate hinge	es broken.	Safety hazard	ı.			



Looking at missing hingers on fence post.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	10/18/2016 10/18/2016	Richard Willoughby

LM Start	Rating **		Issue No.			
LM End	Issue Type +		Location *			
Category			GPS La	atitud	e/Longitude	
Category			Start		End	
Item				0		0
пеш				0		0
DWR ID						
	Comn	nent Cod	de			
		_				
	Inspecto	or Comm	nent			
No issues	were reported.					

No Photos

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.77	Rating **	М	Issue No.		1	
LM End	1.77	Issue Type +	Ma	Location *		LS	
Earthen Levee			GPS La	atitud	e/Longitude		
Category				Start		End	
Item	Animal Co	ontrol		37.2027	'43 °	37.202743°	
пеш				-120.723187°		-120.723187°	
DWR ID	DWR ID DWR_NA0010_11_s _ 2012_1						
		Comn	nent Coo	de			
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	2.33	Rating **	М	Issue No.		1
LM End	2.33	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS L	atitud	e/Longitude
Category				Start		End
Item	Animal Co	ontrol		37.2009	07°	37.200907°
пеш				-120.712978°		-120.712978°
DWR ID DWR_NA0010_12_s _ 2012_1						
		Comn	nent Cod	de		
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	t burrows.
		Inspecto	or Comm	nent		

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.15	Rating **	М	Issue No.		3
LM End	0.15	Issue Type +	Ma	Location *		LS
Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End
Item	Animal Co	ontrol		37.0356	97°	37.035697°
пеш				-120.441197°		-120.441197°
DWR ID DWR_NA0010_13_s _ 2012_3						
		Comn	nent Cod	de		
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.		2	
LM End	1.26	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		rface / Depres	ssions /	37.0323	79°	37.045404°	
пеш	Rutting			-120.4412	65°	-120.427749°	
DWR ID DWR_NA0010_14_f _ 2012_2							
		Comn	nent Coo	de			
C3 : Add a	ppropriate	gravel or road	d base.	Grade and	com	pact.	
		Inspecto	or Comm	nent			
Control vegetation on levee crown.							



Looking at typical view of levee crown.

LM Start	1.24	Rating **	М	Issue No.	79		
LM End	1.24	Issue Type +	Ма	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Animal Co	ontrol		37.0453	43°	37.045343°	
пеш				-120.4280	07°	-120.428007 °	
DWR ID DWR_NA0010_14_s _ 2015_79							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Noted several rodent holes on landward at this location.

Photo 1 of 1 : FA_2016_NA0010_132_79_20161007_00002.jpg



Looking at typical view of rodent holes on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.01	Rating **	М	Issue No.		11	
LM End	1.99	Issue Type +	Ma	Location *	CR		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	Jalegory			Start		End	
Item	Crown Surface / Depressions /			36.9965	47°	36.996587°	
item	Rutting					-120.374503 °	
DWR ID	DWR_NA0	010_15_s _ 201	2_11				
Comment Code							
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.							

Inspector Comment

Control vegetation on levee crown.

LM Start	0.01	Rating **	М	Issue No.	11 (cont)
LM End	1.99	Issue Type +	Ma	Location *	CR



Looking east at typical view of levee in compliance with standards. Fall

Photo 2 of 2: FA_2016_NA0010_133_11_20161007_00002.jpg



Looking east at vegetation on levee crown. Spring 2015

LM Start	0.37	Rating **	М	Issue No.		3	
LM End	0.37	Issue Type +	Ма	Location *		CR	
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Animal Co	Animal Control			50°	36.996550 °	
пеш				-120.403647°		-120.403647°	
DWR ID	DWR_NA0	010_15_f _ 201	6_3				
		Comn	nent Cod	de			
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			
Notice several rodent holes on levee crown.							



Looking at typical rodent holes on levee crown.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	10/18/2016 10/18/2016	Richard Willoughby

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	10/18/2016 10/18/2016	Richard Willoughby

	_					
LM Start	0.01	Rating **	М	Issue No.		14
LM End	1.96	Issue Type +	Ma	Location *		CR
Earthen Levee			GPS L	atitud	le/Longitude	
Category				Start		End
Item		rface / Depres	ssions /	36.9953	888°	36.995507°
пеш	Rutting			-120.4087	'38 °	-120.373592°
DWR ID DWR_NA0010_16_s _ 2012_14						
		Comn	nent Coo	de		
C1 : Add a above the			re-grade	the levee	to br	ing the crown
		Inspecto	or Comm	nent		
Control ve	getation ar	nd regrade le	vee crow	/n.		



Looking at typical view of levee crown.

LM Start	0.93	Rating **	М	Issue No.	92		
LM End	0.93	Issue Type +	Ма	Location *	LS		
Category	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Control			36.9954	39°	36.995439 °	
item				-120.3921	cation * LS GPS Latitude/Longitud Start End 36.995439 ° 36.99	-120.392146 °	
DWR ID DWR_NA0010_16_s _ 2015_92							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Notice several rodent holes within this section.

Photo 1 of 1 : FA_2016_NA0010_134_92_20161007_00004.jpg



Looking at several rodent holes on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.09	Rating **	U	Issue No.		3
LM End	1.09	Issue Type +	Ма	Location *	CR	
Cotogony	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Item	Animal Co	ontrol		36.9954	33°	36.995433°
item		-120.389190 ° -120.3891				
DWR ID	DWR_NA0	010_16_f _ 201	6_3			
		Comn	nent Cod	de		
		Inspecto	or Comm	nent		
Notice several rodent holes on levee crown.						



Looking at several rodent holes and moles holes on levee crown.

LM Start	1.68	Rating **	M	Issue No.		4		
LM End	1.68	Issue Type +	Ma	Location *		LS		
Category	Catagori Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Animal Co	ontrol		36.9955	03°	36.995503	0	
пеш				-120.3785	79°	-120.378579	0	
DWR ID	DWR_NA0	010_16_s _ 201	4_4					
		0		1.				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	1.77	Rating **	U	Issue No.	2		_	
LM End	1.77	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	liegory					End		
Item	Animal Co	ontrol		36.99548	7 °	36.995487	0	
пеш				-120.37705	4 °	-120.377054	0	
DWR ID	DWR ID DWR_NA0010_16_f _ 2014_2							
	Comment Code							

Comment Cod

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Large rodent holes on landward slope.

Photo 1 of 2 : FA_2016_NA0010_134_2_20161007_00001.jpg



Looking at large rodent holes on landward slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.77	Rating **	U	Issue No.		2 (cont)	
LM End	1.77	Issue Type +	Ма	Location *	LS		
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Animal Co	ontrol		36.9954	87°	36.995487°	
item				-120.3770	54°	-120.377054°	
DWR ID DWR_NA0010_16_f _ 2014_2							
		Comn	nent Cod	de			
	dents visib r grout bur	le, but rodent rows.	burrows	visible; nee	ed to	backfill and	
		Inspecto	or Comm	nent			
Large rodent holes on landward slope.							



Looking southwest at several rodent holes on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.		11
LM End	2.54	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	า		36.9764	45°	36.952745°
item				-120.3747	'00°	-120.349100 °
DWR ID DWR_NA0010_17_f _ 2016_11						
		Comn	nent Cod	de		
V1 : Contro easements		rass and wee	eds on th	e levee slo	pes a	and
		Inspecto	or Comm	nent		
Dense vegetation (tumble weeds) on levee slope.						



Looking south at typical view of dense veg on landward slope.

LM Start	0.00	Rating **	U	Issue No.		12	
LM End	2.60	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		36.976445°		36.951928°	
пеш				-120.374700° -120.348605			
DWR ID	DWR_NA0	010_17_f _ 201	6_12				
		Comn	nent Cod	de			
V1 : Contro	ol annual g	rass and wee	ds on th	e levee slop	oes a	and	
easements.							
Inspector Comment							
Dense veg	Dense vegetation (Tumble weeds) on levee slope.						



Looking at typical view of dense veg on waterward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	5.75	Rating **	М	Issue No.		8	
LM End	5.90	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Category				Start		End	
Item	Animal Co	ontrol		36.9086	05°	36.906507°	
пеш				-120.3311	12 °	-120.330353 °	
DWR ID	DWR ID DWR_NA0010_17_s _ 2012_8						
		Comn	nent Cod	de			
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	it burrows.	
		Inspecto	or Comm	nent			
Several ro	dent holes	noted on land	dward slo	ре.			

Ма

Issue No.

Location *

8 (cont)

LS

Rating **

Issue Type +

LM Start

LM End

5.75

5.90



Looking at several rodent holes on landward slope. (Spring 2015)

Photo 2 of 2: FA_2016_NA0010_135_8_20161007_00006.jpg



Looking at several rodent holes on landside slope. (Fall 2014)

LM Start	6.51	Rating **	М	Issue No.		4	
LM End	6.60	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		36.8981	24°	36.896943°	
пеш		-120.326714° -120.32613					
DWR ID DWR_NA0010_17_s _ 2012_4							
		Comn	nent Cod	de			
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
		Inspecto	or Comm	nent			
Notice sev	Notice several rodent holes within this reach.						



Looking at typical view of rodent holes on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	7.27	Rating **	М	Issue No.		5
LM End	7.38	Issue Type +	Ma	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory			Start		End	
	Animal Co	ontrol		36.8878	69°	36.886341°
Item				-120.3216	97°	-120.320940 °
DWR ID DWR_NA0010_17_s _ 2012_5						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Notice several rodent holes within this reach.





Looking at typical view of rodent holes on landward slope.

Photo 1 of 2: FA_2016_NA0010_135_3_20161007_00001.jpg

LM Start	12.34	Rating **	М	Issue No.		3	
LM End	12.38	Issue Type +	Ma	Location *		LS	
Category	Earthen L	GPS Latitude/Longitude					
Calegory	gory					End	
Item	Animal Co	ontrol		36.8205	58°	36.820000°	
пеш				-120.3006	16°	-120.300831 °	
DWR ID	D DWR_NA0010_17_s _ 2014_3						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Noted several rodent holes with this reach.

the state		

Looking at typical view of rodent holes on landward slope. Fall 2015

LM Start	12.34	Rating **	М	Issue No.	3 (cont)
LM End	12.38	Issue Type +	Ma	Location *	LS

Photo 2 of 2: FA_2016_NA0010_135_3_20161007_00002.jpg



Looking at several rodent holes on landward slope. Spring 2015

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

					ı		
LM Start	0.00	Rating **	U	Issue No.		10	
LM End	13.24	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetation			36.9741	13°	36.796253°	
пеш				-120.363258 °		-120.308384°	
DWR ID	DWR_NA0	010_18_f _ 201	6_10				
		Comn	nent Cod	de			
V1 : Contreasements		grass and wee	eds on th	e levee slo	pes a	and	
		Inspect	or Comm	nent			
Control tur	mble weed	s on levee sh	oulder a	nd slope.			



Looking downstream at typical view of dense veg on landward and waterward shoulders.

LM Start	1.44	Rating **	М	Issue No.		7	
LM End	1.44	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Category	Category					End	
ltom	Animal Co	ontrol		36.9561	63°	36.956163°	
пеш	Item				72 °	-120.353672°	
DWR ID DWR_NA0010_18_s _ 2014_7							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several noted on landward slope and on levee crown.

Photo 1 of 1 : FA_2016_NA0010_137_7_20161007_00003.jpg



Looking at typical view of rodent holes within this section on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.25	Rating **	U	Issue No.		8	
LM End	2.25	Issue Type +	Ма	Location *		LS	
Category	Earthen L	then Levee GPS Latitude/Longitude			e/Longitude		
Calegory	gory					End	
	Animal Co	ontrol		36.9455	63°	36.945563°	
item	Item			-120.3471	21 °	-120.347121°	
DWR ID	DWR_NA0010_18_f _ 2015_8						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

One large rodent hole and other rodent holes within this area.

LM Start	2.25	Rating **	U	Issue No.	8 (cont)
LM End	2.25	Issue Type +	Ma	Location *	LS



Looking at large rodent hole on landward slope.

Photo 2 of 2: FA_2016_NA0010_137_8_20161007_00005.jpg



Looking at close-up view of large rodent hole on landward slope.

LM Start	5.89	Rating **	М	Issue No.		1	
LM End	5.89	Issue Type +	Ма	Location *	LS		
Earthen Levee				GPS Latitude/Longitude			
Calegory	Category					End	
Item	Animal Co	ontrol		36.8951	75°	36.895175°	
пеш		-120.3276	32°	-120.327632°			
DWR ID	DWR ID DWR_NA0010_18_s _ 2015_1						
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several large rodent holes noted on landward slope and berm within this section.

Photo 1 of 1: FA_2016_NA0010_137_1_20161007_00001.jpg



Looking at several rodent holes on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.52	Rating **	М	Issue No.		9		
LM End	6.52	Issue Type +	Ма	Location *	WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Animal Co	ontrol		36.8867	'67 °	36.886767°		
item				-120.3234	82°	-120.323482 °		
DWR ID	DWR ID DWR_NA0010_18_f _ 2014_9							
		Comn	nent Cod	de				
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	t burrows.		
		Inspecto	or Comm	nent				

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.53	Rating **	U	Issue No.		21	
LM End	0.53	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.2130	06°	37.213006°	
item				-120.6980	19°	-120.698019°	
DWR ID DWR_NA0010_22A_f _ 2014_21							
		Comn	nent Cod	de			
V2 : Remo	ve the wild	d growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			
Dense vegetation on landward slope.							

			_	-
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Photo 1 of 2: FA_2016_NA0010_138_21_20161007_00008.jpg

Looking at dense vegetation on landward slope. Fall 2015

 LM Start
 0.53
 Rating **
 U
 Issue No.
 21 (cont)

 LM End
 0.53
 Issue Type +
 Ma
 Location *
 LS

Photo 2 of 2: FA_2016_NA0010_138_21_20161007_00009.jpg



Looking south at dense vegetation on landward slope. Spring 2015

LM Start	2.65	Rating **	U	Issue No.		13	
LM End	2.65	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		37.2425	572°	37.242572°	
item				-120.706472 ° -12			
DWR ID DWR_NA0010_22A_f _ 2016_13							
		Comn	nent Cod	de			
E1: Note a	and monito	or erosion site					
			_				
		Inspecto	or Comm	nent			
Erosion ca	iused by ai	nimal traffic.					



Looking at animal erosion on waterwater slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.86	Rating **	М	Issue No.		15	
LM End	3.05	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory						End	
Item	Animal Control			37.2454	31 °	37.247343°	
пеш			-120.707990 °		-120.710362°		
DWR ID DWR_NA0010_22A_s _ 2014_15							
		Comn	nent Cod	de			
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and	
		Inspecto	or Comm	nent			
Noted several rodent holes on landward slope and toe.							



Looking at several rodent holes on landward slope.

LM Start	3.14	Rating **	С	Issue No.	2		
LM End	3.14	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Trim / Thi	n Trees		37.248208°		37.248208°	
пеш				-120.7115	00°	-120.711500°	
DWR ID DWR_NA0010_22A_s _ 2012_2							
Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.64	Rating **	U	Issue No.		9	
LM End	3.69	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Erosion /		37.2533	62°	37.253862°		
пеш				-120.7178	73°	-120.718507°	
DWR ID DWR_NA0010_22A_f _ 2016_9							
Comment Code							
E1 : Note a	and monito	or erosion site	-				
	Inspector Comment						
Erosion or Levee damage caused by animal traffice.							



Looking downstream at animal erosion on waterward slope.

LM Start	3.79	Rating **	М	Issue No.		11	
LM End	3.79	Issue Type +	Ма	Location *		LS	
Category	Earthen Levee			GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.25492	:3°	37.254923	0
пеш				-120.71976	9°	-120.719769	0
DWR ID	DWR_NA0	010_22A_s _ 20)14_11				
		0		12			

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

No Photos

1110	2.00	Rating **	N.4	Issue No.		250	
LM Start	3.80	Raung	М	issue ivo.		259	
LM End	3.80	Issue Type +	Ma	Location *		WS	
Category	evee	GPS Latitude/Longitude					
Odlogory				Start		End	
Item	Encroachi		37.2550	67°	37.255067°		
item				-120.719910° -120			
DWR ID DWR_NA0010_22A_s _ 2015_259							
Comment Code							
TR : Tree or limb							
Inspector Comment							
Dead tree stump on waterward slope.							

Photo 1 of 1 : FA_2016_NA0010_138_259_20161007_00011.jpg



Looking east at dead stump on waterward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.82	Rating **	М	Issue No.		10	
LM End	5.09	Issue Type +	Ма	Location *	CR		
Earthen Levee			GPS La	atitud	e/Longitude		
Category			Start		End		
Item		rface / Depres	ssions /	37.2552	46°	37.267962°	
item						-120.736909°	
DWR ID DWR_NA0010_22A_s _ 2012_10							
Comment Code							
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.			
			_				
Inspector Comment							



Looking west at typical rutting on levee crown.

LM Start	4.82	Rating **	U	Issue No.		12						
LM End	4.87	Issue Type +	Ма	Location *		Location *		Location *		Location *		WS
Category Earthen Levee				GPS Latitude/Longitude								
Calegory				Start		End						
Item	Erosion / Bank Caving			37.2654	18°	37.265823°						
item				-120.733142°		-120.733790°						
DWR ID DWR_NA0010_22A_s _ 2014_12												
Comment Code												
E2 : Schedule repair of erosion site prior to the next inspection.												
Inspector Comment												
Slope damage caused by animal traffic.												



Looking northwest at slope damage cause by animal traffic on waterside slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	4.87	Rating **	U	Issue No.	8			
LM End	4.87	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Slope Stability				13°	37.265813°		
пеш				-120.733748 °		-120.733748°		
DWR ID DWR_NA0010_22A_f _ 2016_8								
	Comment Code							
S1 : Repair slope instability.								
Inspector Comment								
Levee damage caused by animal traffic.								

LM Start	4.87	Rating **	U	Issue No.	8 (cont)
LM End	4.87	Issue Type +	Ma	Location *	WS



Looking downstream at animal erosion on waterward slope.

Photo 2 of 2: FA_2016_NA0010_138_8_20161024_00027.jpg



Looking downstream at animal erosion on waterward slope.

Photo 1 of 2: FA_2016_NA0010_138_4_20161007_00001.jpg

LM Start	5.05	Rating **	М	Issue No.		4		
LM End	5.05	Issue Type +	Ма	Location *	WS			
Earthen Levee				GPS La	atitud	le/Longitude		
Category				Start		End		
Erosion / Bank Caving				37.2675	16°	37.267516°		
пеш			-120.736401 °		-120.736401 °			
DWR ID DWR_NA0010_22A_f _ 2013_4								
		Comn	nent Cod	de				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.		
		Inanaati	or Comm	ant				
		mspecio	or Comm	ieni				
Erosion caused by animal traffic.								



Looking southeast at livestock erosion on waterward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	5.05	Rating **	М	Issue No.		4 (cont)		
LM End	5.05	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory						End		
Item	Erosion / I	Bank Caving		37.2675	16°	37.267516 °		
item				-120.7364	01°	-120.736401 °		
DWR ID DWR_NA0010_22A_f _ 2013_4								
		Comn	nent Cod	de				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.		
Inspector Comment								
Erosion caused by animal traffic.								

Photo 2 of 2: FA_2016_NA0010_138_4_20161007_00002.jpg	1
A STATE OF THE STA	
AND MEN STATE	

Looking southeast at livestock erosion on waterward toe.

LM Start	5.14	Rating **	М	Issue No.	6		
LM End	5.20	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Control			37.2684	92°	37.269133°	
item				-120.7374	93 °	-120.738208°	
DWR ID DWR_NA0010_22A_s _ 2012_6							
0							

Comment Code

A2 : Repair the levee slope damaged by livestock and prevent large animal access.

Inspector Comment

Slope damage caused by livestock on waterside toe.

LM Start	5.14	Rating **	М	Issue No.	6 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS

Photo 1 of 2: FA_2016_NA0010_138_6_20161007_00003.jpg



Looking southeast at livestock erosion on waterward toe.

Photo 2 of 2: FA_2016_NA0010_138_6_20161007_00004.jpg



Looking northwest at livestock erosion along waterside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.42	Rating **	U	Issue No.		20			
LM End	1.51	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Vegetatio	n		36.7724	45°	36.772160°			
item				-120.2770	82°	-120.259722°			
DWR ID DWR_NA0010_23_f _ 2016_20									
		Comn	nent Cod	de					
V1 : Contreasements		grass and wee	ds on th	e levee slo	pes a	and			
easement	>. 	1		1					
		Inspecto	or Comm	nent					



Looking at typical view of dense veg on landward slope.

LM Start	1.21	Rating **	М	Issue No.		6		
LM End	1.21 Issue Type + Ma Location * LS							
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Vegetatio	n		36.7729	73°	36.772973°		
item	-120.264768 ° -120.264768							
DWR ID DWR_NA0010_23_s _ 2013_6								
		Comn	nent Cod	le				
V4 : Elderk	perries are	blocking visib	ility and	flood fight	capa	ability.		
	Inspector Comment							
Control growth of elderberry on landward toe.								



Looking at elderberry on landward toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.		21			
LM End	1.77	Issue Type +	Ма	Location *		WS			
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Vegetatio	n		36.7713	98°	36.771716°			
пеш				-120.2576	59°	-120.255442 °			
DWR ID DWR_NA0010_23_f _ 2016_21									
		Comn	nent Cod	de					
V1 : Contreasements		grass and wee	ds on th	e levee slo	pes	and			
		Inspecto	or Comm	nent					
Dense vegetation (Tumble weeds) on levee slope.									



Looking at dense veg (tumble weeds) on waterward slope.

LM Start	1.87	Rating **	M	Issue No.		22	
LM End	1.87	Issue Type +	Ma	Location *		WS	
Category Earthen Levee GPS Latitude				e/Longitude			
Calegory				Start		End	
Item	Trim / Thi	n Trees		36.77237	73°	36.772373	0
пеш				-120.25384	43 °	-120.253843	0
DWR ID	DWR_NA0	010_23_f _ 201	6_22				

Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

LM Start	1.91	Rating **	U	Issue No.		1	
LM End	1.91	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Odlogory				Start		End	
Item	Trim / Thi	n Trees		36.7729	43°	36.772943°	
itom				-120.2535	11°	-120.253511°	
DWR ID	DWR_NA0	010_23_s _ 201	5_1				
		Comn	nent Cod	le			
T1: Trim t	rees to at l	east five feet	above g	round level.			
	Inspector Comment						
Untrimmed	Untrimmed tree on waterward slope						



Looking at untrimmed tree on waterward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.12	Rating **	М	Issue No.		16
LM End	2.42	Issue Type +	Ма	Location *		WS
Category	Earthen Levee			GPS La	atitud	le/Longitude
Calegory						End
Item	Slope Stability			36.7755	07°	36.774423°
item				-120.2516	72°	-120.246993°
DWR ID	WR ID DWR_NA0010_23_s _ 2013_16					
		Comp	ant Car	lo.		

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Several damaged sites within this reach. Damage caused by vehicle traffic. At. LM. 2.12, 2.21,2.37, & 2.41





Looking west at one of several slope damaged cause by vehicle traffice.

LM Start	2.83	Rating **	U	Issue No.		23
LM End	3.02	Issue Type +	Ма	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory						End
Item	Vegetatio	Vegetation			60°	36.771554°
пеш				-120.2412	48 °	-120.237788 °
DWR ID	DWR_NA0010_23_f _ 2016_23					

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Dense veg (Tumble weeds) on levee slope.

LM Start	2.83	Rating **	U	Issue No.	23 (cont)
LM End	3.02	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_139_23_20161024_00053.jpg



Looking downstream at dense veg on landward slope.

Photo 2 of 2: FA_2016_NA0010_139_23_20161024_00054.jpg



Looking upstream at dense veg on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.85	Rating **	U	Issue No.		15
LM End	2.85	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Vegetation				36.7715	37°	36.771537°
item				-120.2409	17°	-120.240917°
DWR ID DWR_NA0010_23_s _ 2012_15						
		Comn	nent Cod	de		
V4 : Elderberries are blocking visibility and flood fight capability.						
		Inspecto	or Comm	nent		
Control growth of elderberry bush on landward toe.						

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		3	7 dese		
			11		

Photo 1 of 3: FA_2016_NA0010_139_15_20161007_00014.jpg

Looking west at elderberry at landward toe. (Spring 2016)

 LM Start
 2.85
 Rating **
 U
 Issue No.
 15 (cont)

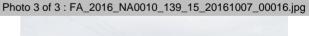
 LM End
 2.85
 Issue Type +
 Ma
 Location *
 LS

Photo 2 of 3: FA_2016_NA0010_139_15_20161007_00015.jpg



Looking east at elderberry at landward toe. (Spring 2015)

LM Start	2.85	Rating **	U	Issue No.	15 (cont)
LM End	2.85	Issue Type +	Ма	Location *	LS





Looking east at elderberry on landside toe and berm. (Fall 2014)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

L							
LM Start	3.30	Rating **	U	Issue No.		3	
LM End	3.30	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	า		36.7744	03°	36.774403°	
пеш				-120.234705 °		-120.234705 °	
DWR ID DWR_NA0010_23_s _ 2012_3							
		Comn	nent Cod	de			
V4 : Elderk	V4 : Elderberries are blocking visibility and flood fight capability.						
		Inspecto	or Comm	nent			
Control growth of elderberry on landward toe.							

Photo 1 of 4 : FA_2016_NA0010_139_3_20161007_00002.jpg	

Looking North at elderberry on landward toe and berm. (Spring 2016)

 LM Start
 3.30
 Rating **
 U
 Issue No.
 3 (cont)

 LM End
 3.30
 Issue Type +
 Ma
 Location *
 LS

Photo 2 of 4: FA_2016_NA0010_139_3_20161007_00003.jpg



Looking north at elderberry on landward toe and berm. (Spring 2015)

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS



Looking north at elderberry on landside toe and berm. (Fall 2014)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	3.30	Rating **	U	Issue No.		3 (cont)
LM End	3.30	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory						End
Vegetation				36.7744	03°	36.774403°
item				-120.234705 °		-120.234705 °
DWR ID DWR_NA0010_23_s _ 2012_3						
		Comn	nent Cod	le		
V4 : Elderberries are blocking visibility and flood fight capability.						
		Inspecto	or Comm	ent		
Control growth of elderberry on landward toe.						



Looking north at elderberry bush on landward toe. (Spring 2013)

LM Start	3.45	Rating **	М	Issue No.		9	
LM End	3.45	Issue Type +	Ма	Location *		LS	
Catagory	evee	GPS La	atitud	e/Longitude			
Category				Start		End	
Item	Vegetatio		36.776537°		36.776537°		
item				-120.234573 °		-120.234573°	
DWR ID	DWR_NA0	010_23_s _ 201	2_9				
		Comn	nent Cod	de			
V4 : Elderl	perries are	blocking visib	ility and	flood fight	сара	bility.	
Inspector Comment							
Control gro	Control growth of elderberry on landward toe and berm.						



Looking north at elderberry on landside toe and berm.

LM Start	4.13	Rating **	U	Issue No.		10	
LM End	4.13	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetatio	Vegetation			12°	36.784212°	
пеш				-120.2288	15°	-120.228815 °	
DWR ID	DWR ID DWR_NA0010_23_s _ 2012_10						
	0						

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Control growth of elderberry on landward toe.



Looking east at elderberry bush on landward toe. (Spring 2016)

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	4.13	Rating **	U	Issue No.		10 (cont)	
LM End	4.13	Issue Type +	Ma	Location *		LS	
	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetation	า		36.7842	12°	36.784212°	
item				-120.228815 °		-120.228815°	
DWR ID DWR_NA0010_23_s _ 2012_10							
		Comn	nent Cod	le			
V4 : Elderk	erries are	blocking visib	ility and	flood fight	capa	ability.	
		Inspecto	or Comm	ent			
Control growth of elderberry on landward toe.							

Ма

Issue No.

Location *

Rating **

Issue Type +

LM Start

LM End

4.13

4.13

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Photo 2 of 3: FA_2016_NA0010_139_10_20161007_00010.jpg

Looking east at elderberry on landside toe and berm. (Spring 2015)

Phot

10 (cont)

LS

Photo 3 of 3: FA_2016_NA0010_139_10_20161007_00011.jpg



Looking east at elderberry bush on landward toe. (Fall 2013)

LM Start	4.45	Rating **	М	Issue No.		11	
LM End	4.45	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetation			36.784523°		36.784523°	
пеш				-120.223292 °		-120.223292 °	
DWR ID	DWR ID DWR_NA0010_23_s _ 2012_11						
		Comn	nent Cod	de			
V4 : Elderberries are blocking visibility and flood fight capability.							
Inspector Comment							
Control growth of elderberry on landward toe and berm.							



Looking northeast at elderberry on landward toe and berm. (Spring 2015)

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	4.45	Rating **	М	Issue No.		11 (cont)
LM End	4.45	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetation			36.784523°		36.784523°
пеш				-120.2232	92 °	-120.223292 °
DWR ID DWR_NA0010_23_s _ 2012_11						
		Comn	nent Cod	de		
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						
Control gro	owth of eld	erberry on lar	dward to	e and bern	า.	



Looking northeast at elderberry on landside toe and berm.

Photo 1 of 1: FA_2016_NA0010_139_5_20161007_00006.jpg

LM Start	5.68	Rating **	U	Issue No.		5		
LM End	5.68	Issue Type +	Ma	Location *	WS			
Category	Cotagoni Earthen Levee				GPS Latitude/Longitude			
Category				Start		End		
Itom	Animal Control			36.7919	81 °	36.791981 °		
Item				-120.2062	74°	-120.206274°		
DWR ID DWR_NA0010_23_s _ 2012_5								
Comment Code								
A								

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Several large rodent holes in this area.

The state of the s	
	生。约翰拉
Bank of All	

Looking at several rodent holes on landside slope.

LM Start	8.97	Rating **	U	Issue No.		25	
LM End	8.97	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Co	ontrol		36.79960)6°	36.799606	0
пеш				-120.17539	95 °	-120.175395	0
DWR ID	DWR_NA0	010_23_f _ 201	6_25				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes on waterward shoulder.



Looking at typical view of rodent hole on waterward shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.82	Rating **	М	Issue No.		6		
LM End	0.82	Issue Type +	Ма	Location *		LS		
Earthen Levee			GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Animal Co	ontrol		36.7667	75°	36.766775 °		
пеш				-120.278757 °		-120.278757°		
DWR ID DWR_NA0010_24_s _ 2013_6								
Comment Code								
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.		
		Inspecto	or Comm	nent				
Noted several rodent holes within this section.								



Looking at several rodent holes on landward slope.

LM Start	1.34	Rating **	U	Issue No.		13		
LM End	2.17	Issue Type +	Ma	Location *		LS		
Cotogon Earthen Levee				GPS Latitude/Longitude				
Category	Category			Start		End		
Item	Vegetation			36.772360°		36.769993°		
item				-120.272798°		-120.259236°		
DWR ID	DWR_NA0	010_24_f _ 201	6_13					
		Comn	nent Cod	de				
V1 : Control annual grass and weeds on the levee slopes and easements.								
Inspector Comment								



Looking at typical view of dense veg on landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.		12	
LM End	2.17	Issue Type +	Ма	Location *	WS		
Earthen Levee				GPS L	atitud	e/Longitude	
Category			Start		End		
Item	Vegetation			36.7707	'59 °	36.769993°	
item			-120.269522 °		-120.259236 °		
DWR ID DWR_NA0010_24_f _ 2016_12							
		Comn	nent Cod	de			
V1 : Contreasements		grass and wee	eds on th	e levee slo	pes a	and	
		Inspect	or Comm	nent			



Looking at typical view of dense veg on waterward slope.

LM Start	3.46	Rating **	М	Issue No.		7
LM End	3.46	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
, Animal Control			36.769345°		36.769345°	
Item			-120.238370°		-120.238370 °	
DWR ID DWR_NA0010_24_s _ 2012_7						
		Cama	ant Car	ام		

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

One of several rodent holes on landward slope.



Looking east at one of several rodent holes on landward slope.

LM Start	6.33	Rating **	A/W	Issue No.		3	
LM End	6.33	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Encroachments			36.7881	55°	36.788155	
пеш			-120.209655 °		-120.209655 [°]		
DWR ID DWR_NA0010_24_s _ 2012_3							
Comment Code							

PR: Prunings

Inspector Comment

Large pruning pile in channel.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.72	Rating **	U	Issue No.		15	
LM End	6.91	Issue Type +	Ма	Location *		LS	
Earthen Levee			GPS La	atitud	e/Longitude		
Category				Start		End	
ltom	ltem Vegetation			36.7866	78°	36.783993°	
пеш				-120.2047	41 °	-120.203779°	
DWR ID DWR_NA0010_24_f _ 2015_15							
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.							
		Inspecto	or Comm	nent			
Dense vegetation on landward slope							



Looking northwest at dense veg on landward slope and toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

		II.					
LM Start	0.00	Rating **	U	Issue No.		7	
LM End	2.48	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee	GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		37.2962	61°	37.271165°	
пеш				-120.880678 °		-120.866629°	
DWR ID DWR_NA0010_25_f _ 2015_7							
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.							
Inspector Comment							

Ма

Issue No.

Location *

7 (cont)

LS

0.00

2.48

LM Start

LM End

Rating **

Issue Type +

Photo 1 of 2: FA_2016_NA0	010_141_7_	20161024	_00022.jpg
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		Van.	3 7 7 7
			100
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Looking at typical view of dense veg on landward slope. (Fall 2016)

Photo 2 of 2: FA_2016_NA0010_141_7_20161007_00001.jpg



Looking at typical view of landward slope. (Spring 2016)

LM Start	0.00	Rating **	U	Issue No.		9
LM End	2.49	Issue Type +	Ма	Location *	WS	
Category	evee	GPS Latitude/Longitude				
Category			Start		End	
Item	Vegetation	n		37.2962	61°	37.271117°
пеш				-120.8806	78°	-120.866599 °
DWR ID DWR_NA0010_25_f _ 2015_9						
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						



Looking at typical view of dense veg on waterward slope. (Fall 2016)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	9 (cont)		
LM End	2.49	Issue Type +	Ma	Location *	WS		
Catagory	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Vegetatio	n		37.2962	61°	37.271117°	
пеш			-120.880678 °		-120.866599 °		
DWR ID DWR_NA0010_25_f _ 2015_9							
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.							
Inspector Comment							



Looking at typical view of wateward slope.

LM Start	0.01	Rating **	U	Issue No.		8	
LM End	2.49	Issue Type +	Ма	Location *		CR	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Vegetation			37.2961	17°	37.271117°	
пеш				-120.8807	24°	-120.866599°	
DWR ID	DWR ID DWR_NA0010_25_s _ 2012_8						
0 10 1							

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Control weeds on levee crown.

LM Start	0.01	Rating **	U	Issue No.	8 (cont)
LM End	2.49	Issue Type +	Ma	Location *	CR

Photo 1 of 2: FA_2016_NA0010_141_8_20161024_00024.jpg



Looking at typical view of dense veg on levee crown. (Fall 2016)

Photo 2 of 2: FA_2016_NA0010_141_8_20161007_00002.jpg



Looking at typical view of levee crown. (Spring 2016)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement